

Abstract

A microchamber comprising a glass substrate (101) which is transparent to a specific wavelength, an absorbent region (102) which absorbs the specific wavelength, and a melting substance region (103) which does not absorb the specific wavelength, is solid at room temperature and melts when heated, which regions are layered on the glass substrate. The absorbent region, is irradiated with a focused light beam (402) of the specific wavelength and locally heated in the vicinity of the converging rays, so that the melting substance region (103) is locally melted at a portion adjacent to the absorbent region, thereby forming a cavity (403) as the focused light beam moves. Accordingly, the shape of the microchamber can be arbitrarily changed in accordance with the process of cell culture.